

(FILE 'HOME' ENTERED AT 10:25:48 ON 07 OCT 2004)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 10:25:58 ON 07 OCT 2004

L1	19 S P34 AND MYCOBACTER?
L2	2 S L1 AND HYBRIDIZ?
L3	2 DUP REM L2 (0 DUPLICATES REMOVED)
L4	0 S L2 NOT L1
L5	17 S L1 NOT L2
L6	9 DUP REM L5 (8 DUPLICATES REMOVED)

FILE 'STNGUIDE

=> d\*12 1-11 sqide can

L2 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 617724-57-9 REGISTRY  
CN DNA, d(G-C-C-G-T-C-C-A-G-T-C-G-T-T-A-A-T-G-T-C-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 72: PN: US20030198943 SEQID: 72 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	US2003198943
	claimed
	SEQID 72

SEQ 1 gccgtccagt cgттаатgтc gc  
===== ==  
HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PRP (Properties); USES (Uses)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:346745

L2 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 496586-02-8 REGISTRY  
CN GenBank BD171663 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

SEQ 1 gccgtccagt cgттаатgтc gc  
===== ==  
HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

L2 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 459404-87-6 REGISTRY  
CN GenBank AX513123 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 19  
NA 3 a 6 c 4 g 6 t

SEQ 1 ccgtccagtc gттаатgтc  
===== ==  
HITS AT: 1-19

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN

SR GenBank  
LC STN Files: GENBANK

L2 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 459404-83-2 REGISTRY  
CN GenBank AX513119 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 24  
NA 3 a 8 c 7 g 6 t

SEQ 1 cggccgtcca gtcgttaatg tcgc

=====

HITS AT: 1-24

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

L2 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 459404-60-5 REGISTRY  
CN GenBank AX513096 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

SEQ 1 gccgtccagt cgттаатgтс gc

=====

HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

L2 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 452113-99-4 REGISTRY  
CN DNA, d(G-C-C-G-T-C-C-A-G-T-C-G-T-T-A-A-T-G-T-C-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 37: PN: JP2002238563 PAGE: 12 unclaimed DNA  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference

Not Given	JP2002238563
	unclaimed
	PAGE 12

SEQ 1 gccgtccagt cgттаатgтс gc

=====

HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: PRP (Properties)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:196632

L2 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 449819-65-2 REGISTRY  
CN DNA, d(C-C-G-T-C-C-A-G-T-C-G-T-T-A-A-T-G-T-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 52: PN: EP1233076 SEQID: 52 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
SQL 19  
NA 3 a 6 c 4 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
=====+	
Not Given	EP1233076
	claimed
	SEQID 52

SEQ 1 ccgtccagtc gttaatgtc

HITS AT: 1-19

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PRP (Properties); USES (Uses)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:180738

L2 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 449819-61-8 REGISTRY  
CN DNA, d(C-G-G-C-C-G-T-C-C-A-G-T-C-G-T-T-A-A-T-G-T-C-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 48: PN: EP1233076 SEQID: 48 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
SQL 24  
NA 3 a 8 c 7 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
=====+	
Not Given	EP1233076
	claimed
	SEQID 48

SEQ 1 cggccgtcca gtcgtaatg tcgc

HITS AT: 1-24

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

PRP (Properties); USES (Uses)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:180738

L2 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 449819-38-9 REGISTRY  
CN DNA, d(G-C-C-G-T-C-C-A-G-T-C-G-T-T-A-A-T-G-T-C-G-C) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 25: PN: EP1233076 SEQID: 25 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference

====+=====  
Not Given|EP1233076  
|claimed  
|SEQID 25

SEQ 1 gccgtccagt cgттаатgтc gc

===== ==

HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PRP (Properties); USES (Uses)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:180738

L2 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 391349-95-4 REGISTRY  
CN GenBank AX278539 (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

SEQ 1 gccgtccagt cgттаатgтc gc

===== ==

HITS AT: 1-22

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: GENBANK

L2 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 367398-37-6 REGISTRY  
CN 85: PN: WO0177372 PAGE: 33 unclaimed DNA (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
SQL 22  
NA 3 a 7 c 6 g 6 t

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference

====+=====  
Not Given|WO2001077372  
|unclaimed  
|PAGE 33

SEQ 1 gccgtccagt cgtaaagtgc gc *SID 25*  
===== ==  
HITS AT: 1-22

**\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\***

MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: PRP (Properties)  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:314398

=> fil hcaplus  
FILE 'HCAPLUS' ENTERED AT 15:05:11 ON 14 JUL 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 Jul 2005 VOL 143 ISS 3  
FILE LAST UPDATED: 13 Jul 2005 (20050713/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 13 1-4 ibib abs hitrn

L3 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:836483 HCAPLUS  
DOCUMENT NUMBER: 139:346745  
TITLE: Identification of a large number of biological  
(micro)organisms groups at different levels by their  
detection on a same array  
INVENTOR(S): Remacle, Jose; Hamels, Sandrine; Zammattéo, Nathalie;  
Lockman, Laurence; Dufour, Sophie; Alexandre,  
Isabelle; De Longueville, Francoise  
PATENT ASSIGNEE(S): Belg.  
SOURCE: U.S. Pat. Appl. Publ., 90 pp., Cont.-in-part of U.S.  
Ser. No. 817,014.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198943	A1	20031023	US 2002-56229	20020123
EP 1136566	A1	20010926	EP 2000-870055	20000324
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002106646	A1	20020808	US 2001-817014	20010323
PRIORITY APPLN. INFO.:			EP 2000-870055	A 20000324
			EP 2000-870204	A 20000915
			US 2001-817014	A2 20010323

AB The present invention is related to an identification and/or quantification method of a large number of biol. organisms groups at different levels (family, genus, species) or part of those (possibly present in a biol. sample) by a detection of their nucleotide sequence with nucleic acid probes in an array or detection proteins by immunoassay. The invention is especially useful in using arrays to discriminate between homologous genetic sequences (nucleotide sequences and amino acid sequences) belonging to several groups of organisms together with the identification of these groups as such. A method and a device are provided which are based upon a simplified technol. requiring the use of a single or limited number of primer pair(s) in an amplification step to detect the presence of the specific target or group of target sequences(s) and followed by the identification of said specific target or groups of target genetic sequences(s) by recording in a single spot identification upon said microarray and in the same exptl. protocol, said signal being either specific of the organism or the group or sub-group of organisms. Specific examples are provided for (1) identification of 3 gram-pos. and one gram-neg. bacteria at the genus level and at the species level on biochips after PCR amplification of gyrase subunit A sequences with consensus primers, (2) identification of meat animals at the family level and at the genus and species levels, on biochips after PCR amplification of cytochrome b gene sequences with consensus primers, and (3) identification of fish at the family level and at the genus and species levels on biochips after PCR amplification of cytochrome b gene sequences.

IT 617724-57-9

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(capture probe for mycobacteria; identification of a large number of biol. (micro)organisms groups at different levels by their detection on a same array)

L3 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:648294 HCAPLUS

DOCUMENT NUMBER: 137:196632

TITLE: Differential detection of non-tuberculosis Mycobacterium species using species-specific upstream p34 gene region probes and primers

INVENTOR(S): Gala, Jean-Luc; Vannuffel, Pascal

PATENT ASSIGNEE(S): Universite Catholique De Louvain, Belg.

SOURCE: Jpn. Kokai Tokkyo Koho, 65 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002238563	A2	20020827	JP 2001-24023	20010131
PRIORITY APPLN. INFO.:			JP 2001-24023	20010131

AB The present invention relates to methods for detecting non-tuberculosis Mycobacterium (NTM) strains in a sample based upon species-specific upstream p34 gene region (us-p34) sequences. New us-p34 sequences and probes and primers derived therefrom are provided as well as methods and diagnostic kits based on the same. Identification of NTM strains using gene chips is described.

IT 452113-99-4

RL: PRP (Properties)  
(unclaimed nucleotide sequence; differential detection of  
non-tuberculosis Mycobacterium species using species-specific upstream  
p34 gene region probes and primers)

L3 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:634347 HCAPLUS  
DOCUMENT NUMBER: 137:180738  
TITLE: Differential diagnosis of Mycobacterium and  
Pseudomonas species using species-specific upstream  
p34 gene region and rRNA operon probes  
INVENTOR(S): Gala, Jean-Luc; Vannuffel, Pascal  
PATENT ASSIGNEE(S): Universite Catholique De Louvain, Belg.  
SOURCE: Eur. Pat. Appl., 92 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1233076	A2	20020821	EP 2002-447026	20020215
EP 1233076	A3	20021204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2354197	AA	20020819	CA 2001-2354197	20010727
US 2003027174	A1	20030206	US 2002-74246	20020214
PRIORITY APPLN. INFO.:				
			EP 2001-870030	A 20010219
			US 2001-269848P	P 20010221
			US 2001-292509P	P 20010523

AB The present invention relates to methods and devices for detecting and  
differentiating between Mycobacterium strains in a sample based upon  
species-specific upstream p34 gene region (us-p34) sequences. New us-p34  
sequences and probes and primers derived therefrom are provided as well as  
methods and diagnostic kits based on the same. The invention also relates  
to methods and devices for detecting and differentiating between  
Pseudomonas strains in a sample based upon species-specific rRNA operon  
(rrn) sequences. New rrn sequences and probes and primers derived  
therefrom are provided as well as methods and diagnostic kits based on the  
same.

IT 449819-38-9 449819-61-8 449819-65-2

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);  
ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(primer sequence; differential diagnosis of mycobacterial and  
pseudomonas species using species-specific upstream p34 gene region and  
rRNA operon probes)

L3 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:763234 HCAPLUS  
DOCUMENT NUMBER: 135:314398  
TITLE: Identification of biological (micro) organisms by  
detection of their homologous nucleotide sequences on  
arrays  
INVENTOR(S): Remacle, Jose; Hamels, Sandrine; Zammattéo, Nathalie;  
Lockman, Laurence; Dufour, Sophie; Alexandre,  
Isabelle; De Longueville, Francoise  
PATENT ASSIGNEE(S): Facultes Universitaires Notre-Dame de la Paix, Belg.  
SOURCE: PCT Int. Appl., 56 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077372	A2	20011018	WO 2001-BE53	20010326

US 2002/  
010646  
102(e) date  
3/23/07



WO 2001077372 A3 20020613  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
EP 1136566 A1 20010926 EP 2000-870055 20000324  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO  
EP 1266034 A2 20021218 EP 2001-914852 20010326  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
JP 2003530116 T2 20031014 JP 2001-575226 20010326  
PRIORITY APPLN. INFO.: EP 2000-870055 A 20000324  
EP 2000-870204 A 20000915  
WO 2001-BE53 W 20010326

AB The present invention is related to an identification and/or quantification method of a biol. (micro)organism or part of it by a detection of its nucleotide sequence among at least 4 other homologous sequences and comprising: amplifying or copying with a unique pair of primer(s), at least part of original nucleotide sequences (1) into target nucleotide sequences (2) to be detected; possibly labeling said target nucleotide sequences (2); putting into contact the labeled target nucleotide sequences (2) with single stranded capture nucleotide sequences (3) bound by a single predetd. link to an insol. solid support (4), preferably a non porous solid support, discriminating the binding of a target nucleotide sequence (2) specific of an organism or part of it by detecting, quantifying and/or recording a signal resulting from a hybridization by complementary base pairing between the target nucleotide sequence (2) and its corresponding capture nucleotide sequence (3), wherein said capture nucleotide sequence (3) being bound to the insol. solid support (4) at a determined location according to an array, said array having a d. of at least 4 different bound single stranded capture nucleotide sequences/cm2 of solid support surface.

IT 367398-37-6, GenBank AX278539  
RL: PRP (Properties)  
(unclaimed sequence; identification of biol. (micro) organisms by detection of their homologous nucleotide sequences on arrays)

=> d his full

(FILE 'HOME' ENTERED AT 14:40:46 ON 14 JUL 2005)

FILE 'REGISTRY' ENTERED AT 14:40:51 ON 14 JUL 2005

L1 29 SEA GCCGTCCAGTCGTTAATGTGCG|GCGACATTAACGACTGGACGGC|CGGCCGTCCAGTC  
GTTAATGTGCG|GCGACATTAACGACTGGACGGCCG|CCGTCCAGTCGTTAATGTC|GACATT  
AACGACTGGACGG/SQSN  
L2 11 SEA SQL<=100 AND L1

FILE 'HCAPLUS' ENTERED AT 14:48:11 ON 14 JUL 2005

L3 4 SEA L2

FILE 'REGISTRY' ENTERED AT 15:03:09 ON 14 JUL 2005

D L2 1-11 SQIDE CAN

FILE 'HCAPLUS' ENTERED AT 15:05:11 ON 14 JUL 2005

D L3 1-4 IBIB ABS HITRN